

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

Claims 1-55 (Canceled)

55. (Currently amended) A method for generating a blood vessel in a mammal, the method comprising administering culture expanded autologous or allogeneic bone marrow stromal cells to said mammal, wherein said cells differentiate into cells of a blood vessel in said mammal, thereby generating a blood vessel.

56. (Previously presented) The method of claim 55, wherein said bone marrow stromal cells are administered to said mammal suffering from a disease, disorder, or condition characterized by a defect in a blood vessel.

57. (Previously presented) The method of claim 55, wherein said mammal is a human.

58. (Previously presented) The method of claim 55, wherein said bone marrow stromal cells are human cells.

59. (Previously presented) The method of claim 55, wherein said bone marrow stromal cells are administered systemically to said mammal.

60. (Previously presented) The method of claim 55, wherein said bone marrow stromal cells are administered intravenously to said mammal.

61. (Previously presented) The method of claim 55, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.

62. (Previously presented) The method of claim 55, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.

63. (Currently amended) A method for repairing or regenerating a blood vessel in a mammal, the method comprising administering culture expanded autologous or allogeneic bone marrow stromal cells to said mammal, wherein said cells differentiate into cells of a blood vessel in said mammal, thereby repairing or regenerating a blood vessel in said mammal.

64. (Previously presented) The method of claim 63, wherein said mammal is a human.

65. (Previously presented) The method of claim 63, wherein said bone marrow stromal cells are human cells.

66. (Previously presented) The method of claim 63, wherein said bone marrow stromal cells are administered systemically to said mammal.

67. (Previously presented) The method of claim 63, wherein said bone marrow stromal cells are administered intravenously to said mammal.

68. (Previously presented) The method of claim 63, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.

69. (Previously presented) The method of claim 63, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.

70. (Currently amended) A method of treating a disease, disorder or condition in a mammal wherein said disease, disorder or condition is characterized by a defect in a blood vessel, the method comprising the steps of:

a) obtaining a bone marrow sample from a donor who is not suffering from a disease, disorder or condition characterized by a defect in a blood vessel and who is syngeneic with said mammal;

b) isolating stromal cells from said sample; ~~and~~

c) culture expansion of said stromal cells; and administering said isolated stromal cells to said mammal.

d) administering said culture expanded stromal cells to said mammal.

71. (Previously presented) The method of claim 70, wherein said disorder of the blood vessel is peripheral vascular disease.

72. (Previously presented) The method of claim 70, wherein said mammal is a human.

73. (Previously presented) The method of claim 70, wherein said bone marrow stromal cells are human cells.

74. (Previously presented) The method of claim 70, wherein said bone marrow stromal cells are administered systemically to said mammal.

75. (Previously presented) The method of claim 70, wherein said bone marrow stromal cells are administered intravenously to said mammal.

76. (Previously presented) The method of claim 70, wherein said bone marrow stromal cells are administered intra-arterially to said mammal.

77. (Previously presented) The method of claim 70, wherein said bone marrow stromal cells are administered intraperitoneally to said mammal.